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l	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/773,366	02/09/2004	Naoki Saito	Q79755	1338
	23373 7590 03/27/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER CHU, JOHN S Y	
	SUITE 800 WASHINGTO	N, DC 20037		ART UNIT	PAPER NUMBER
				1752	
	SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
•	3 MONTHS		03/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/773,366	SAITO ET AL.				
		Examiner	Art Unit				
_		John S. Chu	1752				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failui Any r	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status							
1) 又	Responsive to communication(s) filed on 04 Ja	nuary 2007.					
•=							
	Since this application is in condition for allowar		secution as to the merits is				
7	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
	Claim(s) 1-19 is/are pending in the application.						
•—	4a) Of the above claim(s) is/are withdraw						
	,	William consideration.					
·	5) Claim(s) is/are allowed. 6) Claim(s) <u>1 and 3-18</u> is/are rejected.						
·	Claim(s) <u>2 and 19</u> is/are objected to.						
· -	Claim(s) <u>Zana rs</u> israte objected to: Claim(s) are subject to restriction and/or	r election requirement					
ا اره	ciain(s) are subject to restriction and/or	election requirement.	•				
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119						
a)[	2) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ite				
	r No(s)/Mail Date	6) Other:	· <b>* F *</b> * * * * * * * * * * * * * * * * *				

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## **DETAILED ACTION**

This Office action is in response to the response filed January 4, 2007.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, and 3-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over ARAI et al (6,017,672).

The claimed invention remains drawn to the following:

1. A recording material comprising, on a support, a recording layer containing a diazo compound and an azolinyl acetic acid derivative as a coupler which reacts with the diazo compound to form a color.

ARAI et al discloses a heat-sensitive recording material comprising a diazonium salt and a coupler in column 19, line 10, column 20, line 30, compounds C-27 to C-37 as seen below:

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These couplers meet the claimed azolinyl acetic acid derived coupler in claim 1 wherein the description of these compounds are found in column 15, lines 29-30.attached here:

2-yl, 3,4-dihydroquinazolin-4-on-2-yl, 3,4-dihydroquinazolin-4-sulfon-2-yl, etc., are preferable.

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Basically the compounds are defined as dihydroquinazolin-4-on-2-yl. (for emphasis) and are a derivative of azolinyl as claimed. Thus the nomenclature as recited in claim 1 spans other heterocyclic compound not intended in the specification and not intended as recited in claim 2.

The components as disclosed in ARAI et al are encapsulated as seen in column 22, lines 25-68. The diazonium salts are found in column 5 – column 13.

ARAI et al lacks a working example using the azolinyl acetic acid derived couplers, however the listed coupler above are clearly disclosed and taught to function successfully in a recording material.

It would have been *prima facie* obvious to one of ordinary skill in the art of heat-sensitive recording materials with diazonium/coupler components to use any of the couplers of C-27 through C-37 in place of the coupler C-16 in Examples 1-12 or in place of any of the couplers seen in Example 13-16 with the reasonable expectation of same or similar results as disclosed in ARAI et al' examples for improved color image density and improved storage stability.

3. Claims 2 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

None of the references of record disclose the compound of general formula (1)

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Merck Index, 11th ed. is cited for the compound quinazoline 8062.

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Hawley's Condensed Chemical Dictionary is cited for the definition of oxazole and oxazoline on page 860.

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Cynthia Kelly, can be reached on (571) 272-1526

The fax phone number for the USPTO is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John S. Chu

Primary Examiner, Group 1700

J.Chu March 21, 2007